

Amendment to the Specification

The Paragraph beginning at Page 22, lines 2, through to Page 23 line 1, is to be amended as follows:

When a user clicks on a netpage with a netpage pen, the pen communicates the click to the nearest netpage printer 10601. The click identifies the page and a location on the page. The printer 10601 already knows the ID ~~1061~~10061 of the pen from the pen connection protocol.

The printer 10601 determines, via the DNS, the network address of the page server 10010a handling the particular page ID 10050. The address may already be in its cache if the user has recently interacted with the same page. The printer 10601 then forwards the pen ID 10061, its own printer ID 10062, the page ID 10050 and click location to the page server 10010a.

The page server 10010a loads the page description identified by the page ID 10050 and determines which input element's zone, if any, the click lies in. Assuming the relevant input element is a hyperlink element, the page server 10010a then obtains the associated application ID 10064 and link ID 10054, and determines, via the DNS, the network address of the application server hosting the application 10071.

The page server 10010a uses the pen ID 10061 to obtain the corresponding user ID 10060 from the registration server 10011, and then allocates a globally unique hyperlink request ID 10052 and builds a hyperlink request 10934. The hyperlink request class diagram is shown in Figure 33. The hyperlink request records the IDs of the requesting user 10800 and printer 10802, and identifies the clicked hyperlink instance 10862. The page server 10841 then sends its own server ID 10053, the hyperlink request ID 10052, and the link ID to the application.

~~The Referring again to Figure 34, the application 10071 produces a response document according to application-specific logic, and obtains a document ID 10051 from an ID server 10012. It then sends the document to the page server 10010b responsible for the document's newly allocated ID, together with the requesting page server's ID and the hyperlink request ID.~~

The second page server 10010b sends the hyperlink request ID and application ID to the first page server 10010a to obtain the corresponding user ID and printer ID 10062. The first page server 10010a rejects the request if the hyperlink request has expired or is for a different application.

The second page server 10010b allocates document instance and page IDs 10050, returns the newly allocated page IDs to the application, adds the complete document to its own database, and finally sends the page descriptions to the requesting printer 10601.

The hyperlink instance may include a meaningful transaction ID 10055, in which case the first page server 10010a includes the transaction ID in the message sent to the application 10071. This allows the application 10071 to establish a transaction-specific context for the hyperlink activation.

If the hyperlink requires a user alias, i.e. its "alias required" attribute is set, then the first page server 10010a sends both the pen ID 10061 and the hyperlink's application ID 10064 to the registration server 10011 to obtain not just the user ID corresponding to the pen ID but also the alias ID 10065 corresponding to the application ID and the user ID. It includes the alias ID in the message sent to the application 10071, allowing the application 10071 to establish a user-specific context for the hyperlink activation.